



Assoc.Prof. Dr. Muhammet Gökhan CİNSDİKİCİ

Personal Information

Nationality : T.C.
Marriage Status : Married (having daughter and son)
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Web Pages :
i. <http://cinsdikici.com>
ii. <http://comvislab.com>

Objective

To reach career satisfaction with a position in image processing and neural networks which are both challenging and significant to the fulfilment of academic objectives. (Industrial cooperation is also important)

Education

Degree	University	Join	Graduate	Faculty/Dep.	Thesis	Advisor	Rank
PhD.	Ege University	18/09/97	19/04/04	Int'l Computer Inst.	License Plate Recognition Module for Intelligent Transportation Systems.	Prof.Dr.Turhan TUNALI	First 3 88/100
MSc.	Ege University	01/09/95	01/09/97	Computer Eng. Dep.	Neural Network Solutions for ATM Routing & Multicasting Problems.	Prof.Dr. Emrah ORHUN	First 3 92/100
BSc. (honors)	Ege University	01/09/90	28/07/95	Computer Eng. Dep.	Character Recognition with EMAN (Equivalent Mass Attraction Net) Neural Network.	Assoc.Prof.Dr. Yusuf ÖZTÜRK	First 3 84/100

Employment

07/2017	-	Associate Prof.Dr,	Manisa Celal Bayar Unv Computer Engineering	Manisa/Turkey
04/2012	- 07/2017	Associate Prof.Dr,	Ege University International Computer Institute	İzmir/Turkey
08/2004	- 04/2012	Assistant Prof.Dr,	Ege University International Computer Institute	İzmir/Turkey
12/2002	- 01/2006	Cisco Instructor,	Ege University Cisco Regional Network Academy	İzmir/Turkey
12/2000	- 08/2004	Unv.IT Manager,	Ege University Network IT Center	İzmir/Turkey
12/1998	- 08/2004	Research Asst.,	Ege University International Computer Institute	İzmir/Turkey
12/1995	- 12/1998	Research Asst.,	Ege University Computer Eng. Department	İzmir/Turkey

Certification

Cisco "Fundamentals of Security" Certified Instructor 15/09/2004
Cisco & Sun "Fundamentals of Unix Administration" Certified Instructor 15/06/2003
CCNA (Cisco Certified Network Associate) Certified, 9/07/2002
CCAI (Cisco Certified Academy Instructor) Certified, 9/07/2002
Cisco Local Academy Instructor, ITU Regional Academy, 5/02/2002
Sun Solaris Administration I, II, Gantek, 2001

Academic Publications

Thesis

19/04/04	PhD. , "License Plate Recognition for Intelligent Transportation Systems" Unv: Ege Univ. Dep: Int.l Computer Inst Advisor: Prof.Dr.Turhan TUNALI
01/09/97	MSc. , "Neural Network Solutions for ATM Routing & Multicasting Problems." Unv: Ege Univ. Dep: Computer Eng. Dep. Advisor: Prof.Dr.Emrah ORHUN

Books

1. [Cinsdikici M.], ODOM W., April 2008, "Cisco ICND Exam Certification Guide (in Turkish)", Cisco Press/Sistem Yayıncılık, ISBN: 978-975-322-4

Patents

1. Cinsdikici M., Memiş K., "Traffic Flow Control System", Patent Registration ID: 2007/08506
2. Cinsdikici M., Soner M., "Tekli manyetik halka üzerinde yapay sinir ağıları kullanılarak araç sınıflama sistemi ve yöntemi.", Patent Registration ID: 2011/11266

Journals [*] for SCI papers

1. [*] Dagdeviren Z.A., Aydin D., Cinsdikici M., 2017, "Two Population-based Optimization Algorithms for Minimum Weight Connected Dominating Set Problem", Applied Soft Computing, vol:49, pp:644-658, DOI: <https://doi.org/10.1016/j.asoc.2017.06.023>
2. [*] Oğuz K., Cinsdikici M., Gönül A.S., 2017, "Robust Activation Detection Methods for Real-Time and Offline fMRI Analysis", Computer Methods and Programs in Biomedicine, vol: 144, pp:1-11 DOI: <http://dx.doi.org/10.1016/j.cmpb.2017.03.015>, WOS:000402214800002
3. [*] Dagdeviren Z., Oğuz K., Cinsdikici, M., 2013, 'Three techniques for automatic extraction of corpus callosum in structural midsagittal brain MR images: Valley Matching, Evolutionary Corpus Callosum Detection and Hybrid method' – Engineering Applications of Artificial Intelligence [ISSN 0952-1976], vol(31) pp.101-115, DOI:<http://dx.doi.org/10.1016/j.engappai.2013.10.004>
4. [*] Meta, S., **Cinsdikici, M.**, 2010, "Vehicle-Classification Algorithm Based on Component Analysis for Single-Loop Inductive Detector", IEEE Transactions on Vehicular Technology, Vol: 59, No: 6, pp: 2795-2805 doi:[10.1109/TVT.2010.2049756](https://doi.org/10.1109/TVT.2010.2049756)
5. **[*] Cinsdikici, M.**, Memis, K., 2010, "Traffic Flow Condition Classification for Short Sections using Single Microwave Sensor", EURASIP Journal on Advances in Signal Processing, Vol: 2010 (2010), Article ID: 148303. doi: [10.1155/2010/148303](https://doi.org/10.1155/2010/148303)
6. [*] Ugur, A., Korukoglu, S., Çaliskan, A., **Cinsdikici, M.**, Alp, A., 2009, 'Genetic Algorithm Based Solution for TSP on Sphere', Mathematical & Computational Applications, Vol:14, No:3, pp:219-228
7. **[*] Cinsdikici M.**, Dogan A., 2009, 'Detection of blood vessels in ophthalmoscope images using MF/ant (matched filter/ant colony) algorithm', Computer Methods and Programs in Biomedicine, - vol:96 (2), pp:85-95, doi:[10.1016/j.cmpb.2009.04.005](https://doi.org/10.1016/j.cmpb.2009.04.005)
8. **[*] Cinsdikici, M.**, Ugur, A. and Tunali,T, 2007, 'Automatic number plate information extraction and recognition for intelligent transportation system', Imaging Science Journal The, Vol. 55, no.2, pp.102-113 doi:[10.1179/174313107X189212](https://doi.org/10.1179/174313107X189212)
9. [*] Karlik B., Uzam M., **Cinsdikici M.** and Jones A.H., 2005, 'Neurovision-based logic control of an experimental manufacturing plant using neural net le-net5 and automation Petri nets' - ,Int. Journal of Manufacturing, Vol.16, Numbers 4-5, pp. 527 – 548 doi:[10.1007/s10845-005-1662-5](https://doi.org/10.1007/s10845-005-1662-5)
10. [*] **Cinsdikici, M.** and Tunali, T., 2003, "License Plate Segmentation for Intelligent Transportation Systems", Proceedings of the 18th International Symposium - on Computer and Information Sciences (ISCIS'04) , Lecture Notes in Computer Sciences, Springer-Verlag, Vol 2869, pp. 439-446.
11. Kurt M., **Cinsdikici M.**, 2008, 'Representing BRDFs using SOMs and MANs', - ACM Siggraph Computer Graphics , vol.42 (3), pp:1-18 doi:[10.1145/1408626.1408630](https://doi.org/10.1145/1408626.1408630)

International Conference Papers

1. Dagdeviren Z.A, Oguz K., Cinsdikici M., "[Automatic registration of structural brain MR images to MNI image space](#)", Sinyal Isleme ve Uygulamalari (SIU'2015), 2015, pp:359-362, doi:[10.1109/SIU.2015.7129833](https://doi.org/10.1109/SIU.2015.7129833)
2. Candemir, C., Cetinkaya C., Kilicceker O., Cinsdikici M., "[Retina Damar Görüntülerinde Tipik Noktaların Bulanık RBF Modeliyle Sınıflandırması](#)", Sinyal Isleme ve Uygulamalari (SIU'2013), 2013, pid:337
3. Aydın, D., Cinsdikici, M.G., 2009, "An Ant-Based Algorithm to Detection of Blood Vessels in Retinal Images", International Symposium on INnovations in Intelligent SysTems and Applications (INISTA 2009) , pp. 512:516.
4. Cinsdikici, M., Memiş, K., 4-6 June 2008, "Traffic flow evaluation at a short section using multiple regression approach", 7.th European Congress and Exhibition on ITS (Intelligent Transport Systems and Services), ITS'2008 - Geneva Switzerland, paper ID: 2650: <http://www.itsineurope.com/index.cfm?do=timetable.paper&paperID=2650&sessionID=372>
5. Aslan S., Uzer Y., Isik O., Altun M., Cinsdikici M., 27-29 Oct. 2008, "A Simple and Improvable Method for Face Region Extraction", Proc. of ISCIS 2008, pp:162-165 doi:[10.1109/ISCIS.2008.4717884](https://doi.org/10.1109/ISCIS.2008.4717884)

6. Cinsdikici M., Memiş K., 16-20 Nov. 2008, 'Direction-Based Freeway Traffic Flow Classification', PaperID:20416, 15.World Congress on Intelligent Transport Systems, NewYork, USA - Presenter: Ugur Turkoglu
https://1bosweb3.experient-inc.com/Events/ITSA/WorldCongress2008/Agenda/agenda_by_track.cfm?track=&no=90290&
7. Karlık B., Cinsdikici M., Jones A.H., 9-21 Oct. 2001, "A Manufacturing Plant Control Using Convolutional Neural Net Le-Net5", NIMIA 2001, SC2001-2001 NATO Advanced Study Institute on Neural Networks For Instrumentation, Measurement, and Related Industrial Applications:Study Cases, Crema, Italy, pp.133-137
8. Cinsdikici M., Yüçetürk A.C., Öztürk Y., 27-29 Oct. 1997, "Partitioned Generalized Euclidean Distance", The Proceedings of the Twelfth International Symposium on Computer and Information Sciences (ISCIS'XII), Antalya, pp:623-628

National Conference Papers

2. Aslan, S., Tunalı, T., **Cinsdikici, M.**, 2007, "A Comparative Study of Feature Metrics for Classification of Human Passport Photos," Signal Processing and Communications Applications, SIU 2007. IEEE 15th , vol., no., pp.1-4, 11-13 June 2007
doi: 10.1109/SIU.2007.4298721
3. Olgen K., Inceoglu M., **Cinsdikici M.**, Ikiz F., 6-9 Oct 2004, "Geographic Information Systems Infrastructure of Ege Univ. (in Turkish – Ege Universitesi Cografi Bilgi Sistemi)", III.Geographic Information Systems Symposium, pp: 375-381
4. **Cinsdikici M.**, 1-4 May 2003, "Technical Review of The Turkish Laws on the subject of VoIP - Transmission of Voice over IP Protocol- (in Turkish - Internet Protokolu Uzerinden Ses Iletimi Hakkinda Ilgili Yasalara Teknik Gozle Bakis)", Information Technologies Symposium-II, Poster ID:131
5. Can O., **Cinsdikici M.**, Bozkurt M., 5 Feb 2003, "Network Specialist Training Program (in Turkish - Bilgisayar agi teknolojileri uzmanligi egitimi)", AB'03 Symposium, paper No:54.
6. Inceoglu M., **Cinsdikici M.**, etc., 2002, "European Computer Driving License (ECDL) Training Program (in Turkish - Avrupa Bilgisayar Kullanım Yeterlilik Sertifikasi (ECDL) Akrediteli bir Bilgisayar Egitim Programinin Uyarlanmasi)", BTIE 2002, pp: 162-166.
7. Yuceturk A.C., **Cinsdikici M.**, Ozturk Y., 23-25 June 1999, "Continuous Learning on Kohonen SOM., VIII. Turkish Artificial Intelligence and Neural Networks Symposium (TAINN'99), pp: 321-328, Bogazici Univ.
8. **Cinsdikici M.**, Toker L., 1998, "Algorithms for Improving Performance of Routing on ATM Networks (in Turkish - ATM Aglarinda Yonlendirme Algoritmalarinin Etkinlestirilmesine Yonelik Algoritma Tasarimlari)", IV.INET-TR'98
9. **Cinsdikici M.**, Yuceturk A.C., Ozturk Y., 1997, "A Neural Network Approach to Color Reduction with False Color Elimination", New Trends in Artificial Intelligence and Neural Networks Proceedings, (based on TAINN'97 Symposium), pp:206-210
10. **Cinsdikici M.**, Yuceturk A.C., Ozturk Y., 3-6 Sep 1997, "Neural Networks Solutions for ATM Networks (in Turkish-ATM Networkleri icin Yapay Sinir Agi Cozumleri)", AB'97 Symposium, pp:55-59

Projects

A.Campus Network Projects

- 2004, "Ege University ULAKBIM Connection for Turkey & European Geant Academic Backbones"
- 2002, "Ege University Security Policy Project with Checkpoint Firewall",
- 2001, "Ege University Superonline Redundant Satellite Connection for Internet"
- 2000, "Ege University Branch Office Frame Relay Connections",
- 2000, "Ege University Ere Satellite Connection for Internet"
- 1999, "Ege University Entire Campus New Installation with Gigabit Tech. (Eunet-ii)
(Includes new 300 switches, 11 Core L3 MLS, 2 Core Router)

B. Academic Projects

B.1 TUBITAK Projects

Project0: [2015-2018] **1001-(2148029)**- Hafif Bilişsel Bozukluk Tanısı Alan Bireylerin Default Mode, Kısa Süreli Bellek Kayıt Ve Geri Çağırma İle İlişkili Nöral Bileşenlerinin Erken Alzheimer Hastaları İle Onların Sağlıklı Kardeşleri Ve Kontroller İle Karşılaştırılması

[Budget: 359.915 TL]

Project Coordinator: Prof.Dr.Ali Saffet Gönül Researcher: **Assoc.Prof.Dr.Muhammed Gokhan Cinsdikici**

In order to put the as early as possible diagnosis for Alzheimer Disease (AH), the operations and behaviors of the neuronal circuits (i.e. normal type, pathologic and compensating pathologic type) have to be defined, their responses have to be measured and anatomical changes related with them have to be detected.

Project1: [2005-2008] **3501-SBAG-K-24 (104S236)**- Kan şekeri (glukoz) tayini için, non-invaziv elektrokimyasal ölçüm cihazına ait donanım ve yazılımların tasarımı ve geliştirilmesi
[Budget: 100.000 TL]
Project Coordinator: Doç.Dr.Emrah Kılıç Researcher: **Asst.Prof.Dr.Muhammed Gokhan Cinsdikici**

In this project I have been worked as in the capacity of computer engineer. The aim is to transfer and to analyze the digital data gathered through non-invasive electrochemical measurement device used for of blood sugar level estimation. By using the developed software, it is targeted that the patients should easily read their blood sugar level and should easily perceive their health status by just observing the graphical notifications.

B.2 BAP Projects

Project0: [2009-2011] Mobile Oculist Assistant (MOA): Importing/Processing/Updating Patients Retina Images by using Mobile PDA
[Budget: \$7000]
Project Coordinator: **Asst.Prof.Dr. Muhammet Gokhan Cinsdikici**

The aim of this project devoted to health care is maintaining a platform for oculists to assist them on retinal image processing through the usage of PDA. PDA supports their decision making by supplying messaging and collaborative table based work on retinal images of the patients.

Project1: [2007-2009] Ege University Campus Car Entrance Tracking System with LPR Project,
[Budget: \$7200]
Project Coordinator: **Asst.Prof.Dr. Muhammet Gokhan Cinsdikici**

In this project, LPR project is adopted for Ege University. This project aims to support security systems in campus. University security department has reported several violations related with unknown automobiles. They keep track of cars manually. This project aims to report all cars automatically and alerts the unidentified cars to security department.

Project2: [2004-2008] Designing and Implementing Non-invasive Electrochemical Measurement Equipment Hardware & Software Systems for Glucoses Inspection. [TUBITAK Project]
[Budget: \$100000]
Project Coordinator: **Asst.Prof.Dr. Muhammet Gokhan Cinsdikici**

In this project, Pharmacy department has designed new non-invasive equipment to measure glucoses. This hardware is located in wrist watch. The base of the watch is covered with special chemicals that react under certain micro voltage energy levels with human tears. My position in this project is constructing a neural network model for estimating threshold level of the glucoses for patient by just reading the measurements.

Project3: [1999-2003] LPR (License Plate Recognition) Project – Supported by Aselsan Military Res./Dev.Co.,
[Budget: \$3000]
Project Coordinator: Prof.Dr.Turhan Tunalı Scholarship Bursar: **Res.Ass.Muhammed Gokhan Cinsdikici**

In this project, the triggered image (including car and environmental info) is taken as input data. Over this input, we are trying to extract plate-like regions (candidates). First, image is scaled by Kaiser filtering (Also simple interpolation methods are tried). Then vertical edge detection is done. Vertical edges give some clues about plate character density (Some other techniques like symbol searching, line projection tracking are also studied). After isolating all candidate regions (skewed/rotated), they are rotated automatically by Radon/Hough transformation. After rotation is corrected, we segment all candidates into small objects (character-like shapes) with our method of Bidirectional Vertical Thresholding (based on simple gradient direction). Number of objects defines the candidate as real plate. After all character objects are extracted, they are fed into recognition module. This module is composite module of feature extractor (principle component analysis unit) and recognizer (backpropagation neural network). After characters are recognized, the plate conversion is accomplished.

Project4: [2002-2004] GIS System for Ege University – Supported by Ege University
[Budget \$25000, Project ID: 02-BTAM-001]
Project Coordinator: Prof.Dr.Fikret IKIZ As Project Researcher: **Res.Ass.Muhammed Gokhan Cinsdikici**

This project is designed and implemented for developing GIS maps for Ege University infrastructure. In this work, I have studied on exporting network topology of the Ege University. The fiber optic cabling and Utp Cat5 cable topology for GIS system.

Project5: [2001-2003] E-Learning and ECDL Adaptation for Education in Ege University – Supported by Ege University
[Budget \$25000, Project ID: 02-BTAM-001]
Project Coordinator: Prof.Dr.Fikret IKIZ As Project Researcher: **Res.Ass.Muhammed Gokhan Cinsdikici**

This project is designed and implemented for developing GIS maps for Ege University infrastructure. In this work, I have studied on exporting network topology of the Ege University. The fiber optic cabling and Utp Cat5 cable topology for GIS system.

Project6: [1996-1997] Neural Network for Pattern Recognition – Supported by Ege University Engineering Department
[Budget \$5000, Project ID: 94-MUH-003]
Project Coordinator: Assoc.Prof.Dr.Yusuf Ozturk Scholar Bursar: **Res.Ass.Muhammed Gokhan Cinsdikici**

Document analysis is the main subject of project. In the project, the text areas and image areas are tried to be differentiated. MAN and MAREN neural network models are studied in the project. The aim of these neural networks is to recognize characters. If the characters show a straight line and the lines are forming paragraph, then the area is marked as text area. If not, the area is marked as image area. Image segmentation and pattern recognition techniques are studied.

National Newspapers and TV

1. **Cinsdikici M.**, 26 Oct 1999, "Welcome to New Year-Year2K Problem", Yeni Asır Gazetesi, p.15
2. **Cinsdikici M.**, 19 Oct 1999, "Interview: Year2K Problem", Ufuga Dogru TV Program, Izmir Yeni Asır TV

Awards - Degrees

3rd degree, Faculty of Engineering,	1995
3rd degree, Department of Computer Engineering,	1995
3rd degree, Regional award of Chemistry (Ege Region),	1990
1st degree, Inter high schools Biology Award,	1990

Awards – Academic Support

YTMK	Award of Best Paper by Yollar Türk Milli Komitesi	2010
TUBITAK	Award of International Scientific Publication Support,	2003 /05/07/09/10/13/17
Ege University	Award of International Scientific Publication Support,	2003 /05/07/09/10/13/17

Scholarship

NATO-ASI (Advanced Study Institute) Scholarship, 2 weeks (9-20 Oct 2001), Crema, Italya

As Referee

SCI Journals

- a. "Applied Intelligence" Journal Referee, ISSN: 0924-669X, 2008
- b. "IEEE Transactions on Intelligent Transportation Systems", ISSN: 1524-9050, 2008
- c. "IEEE Transactions on Vehicular Technology", ISSN: 0018-9545, 2009
- d. "Computer in Biology and Medicine", ISSN: 0010-4825, 2009
- e. "IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans", ISSN: 1083-4427

Conferences

- f. 1st International Symposium on Computing in Science & Engineering, ISCSE 2010, *Program Committee*, 3-5 June 2010.
- g. IEEE 18th Signal Processing and Communication Application Conference, SIU 2010, *Program Committee*, 22-24 April 2010
- h. 3rd IEEE International Conference on Application of Information and Communication Technologies, *Program Committee*, 14-16 October 2009.
- i. First Turkish Conference on BSD Systems, BSDConTR'07, *Program Committee*, 20-21 Oct 2007
- j. Turkish Artificial Intelligence and Neural Networks (TAINN'06) Symposium, *Program Committee*, 21-24 June 2006
- k. International Congress on Information Technology in Agriculture, Food and Environment, ITAFE'03, *Organization committee*, 7 -10 Oct 2003

Teaching

Lectures

2015-	Machine Learning.	Ege Univ. Int'l Computer Inst.
2009-	Image Processing.	Ege Univ. Int'l Computer Inst.
2006	Neural Network Models	Ege Univ. Int'l Computer Inst.
2006-2015	Java Programming	Ege Univ. Int'l Computer Inst.
2004-2012	Distributed Systems	Ege Univ. Int'l Computer Inst.
2004-	Network Programming	Ege Univ. Int'l Computer Inst.
2004-	Operating Systems	Ege Univ. Int'l Computer Inst.

Courses

2002-2012	Cisco Network Academy C.	Ege Univ. Computer Center
1997-2000	IT/Network Management C.	Ege Univ. Computer Center

Managed Thesis ([*] Completed)

<u>Year</u>	<u>Thesis</u>	<u>Student</u>	<u>Sta.</u>
2017 -	Population based Optimiz Algo for Min.Wght Conntctd DominatiSet	Zuleyha Dagdeviren	PhD
2017 -	Image Registration for Wilde Images	Fatih Dagdeviren	PhD
2017 -	Image Registration via Genetic Algorithm Based Heuristics	Aslı Kaplan	MSc
2017 -	Image Forgery Detection for Security Systems	Fatih Kılıç	PhD
2017 -	Detection of Change point on fMRI data for Multi-Subject Social Support	Cemre Candemir	PhD
2017 -	Ejection Function Measure for Right Ventricul Imgs in MRI	Elif Tuğba Akçay	MSc

2016 [*]	The Diagnosis of Alzheimer Disease basedn on classification of fMRI	Kaya Oğuz	PhD
2015 [*]	Panoramic Image Creation by Using Particle Swarm Optimization	Fatih Dağdeviren	MSc
2013 [*]	Image Registration on Ophtalmoscope Imgs of Retina Using ABC	Mehmet Nuri Toplu	MSc
2012 [*]	Registration of the Structural MRI Images of Patients to MNI Space	Züleyha Dağdeviren	MSc
2012 [*]	Vascular Landmark Detection in Retinal Images Using Fuzzy-RBF	Cemre CAndemir	MSc
2010 -	RF Based Localization with Neural Nets for Sensor Networks	Melih C. Şerefoğlu	MSc
2010 -	Retina Vessel Extraction with Fuzzy LVQ Based Neural Net	Yasemin Türkoğlu	MSc
2010 [*]	Similarity Measurement Techniques for Lesion Detection in DR	Onur Kılınççeker	MSc
2010 [*]	Retina Bifurcation points detection using Fuzzy-ART based RBF NN	Cihat Çetinkaya	MSc
2008 -	Lendmarks Detection in Retina Images	G.Kemal Anlı	MSc
2008 -	Optic Disk Boundary Detection in Retina Images	Erman Olca	MSc
2008 [*]	ANN for Length-Based Vehicle Classification Using Single-Loop	Soner Meta	MSc
2007 [*]	Image Registration on Ophthalmoscope Images for Diagnosis	Huseyin Yesil	MSc
2007 [*]	Traffic Flow Control Measurement by SVM	Kemal Memis	MSc
2007 [*]	Composite Associative Memory Model for Image Color Reduction	Gonen Ozsatisr	MSc
2007 [*]	Vision Control Module for Rhino Robot -Chess Board Player-	Oguz Ozhan	MSc
2007 [*]	Instant Messaging System Application for Internal Structures	Ali Samay	MSc

OTHER

Members of

- a. IEEE Member, Member ID: 90131767, 2008, Turkey Section
- b. IEEE Computational Intelligence Society
- c. Ulakbim Inter-Universities Network Managers Committee. (Ulak-Y) [2001-2005]
- d. Turkish Information/Computing Organization (TBD)
- e. Turkish Network Managers Foundation[2012-2017]

Areas of Interest

Image Processing, Computer Vision, Pattern Recognition, and Learning Systems

Homepages